rmfit
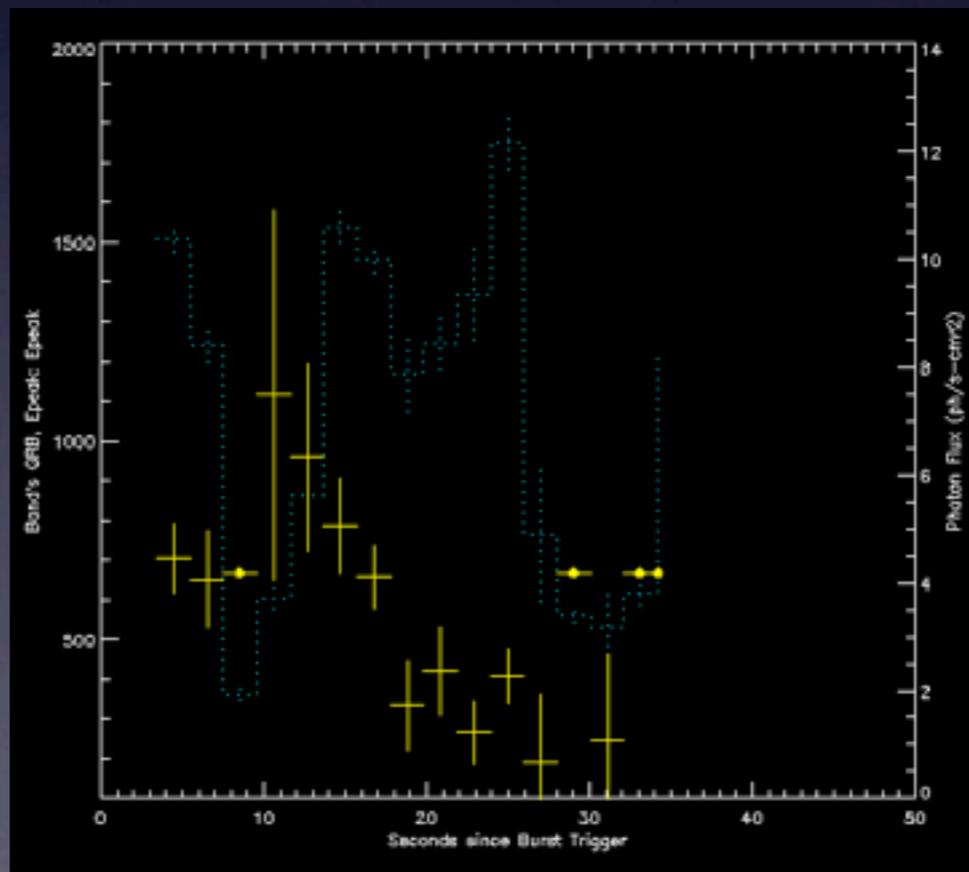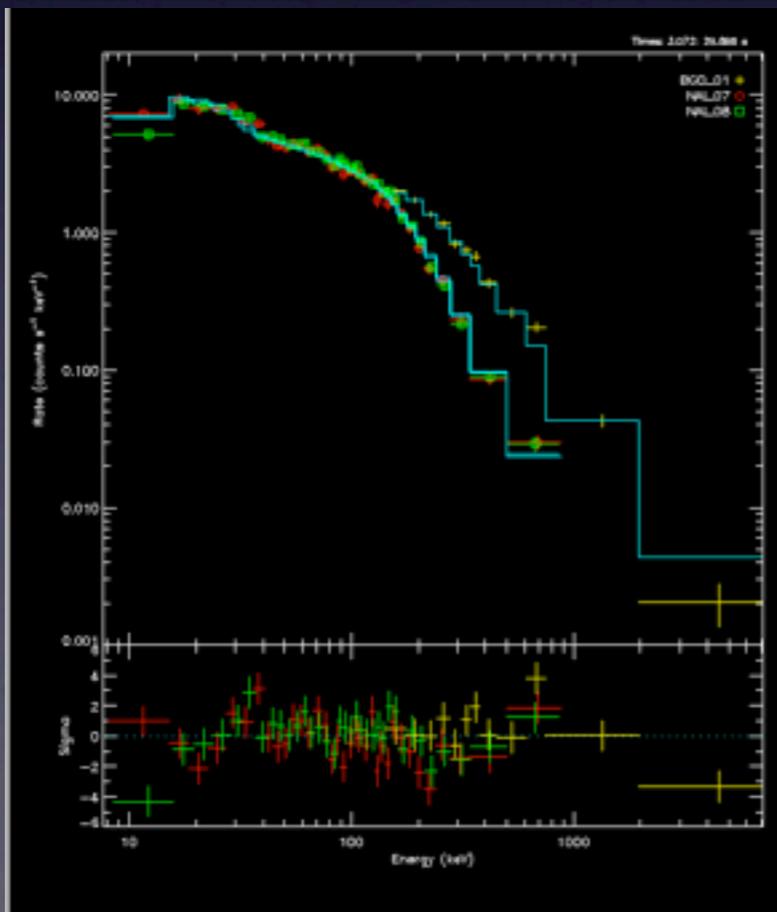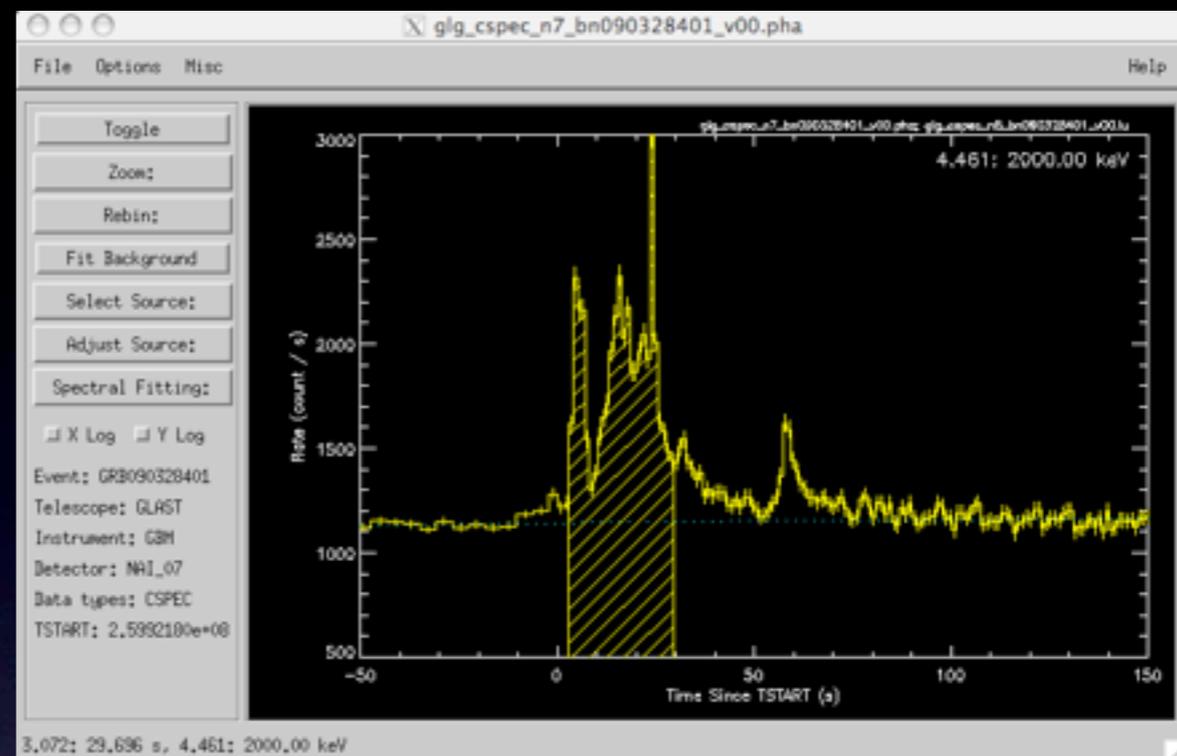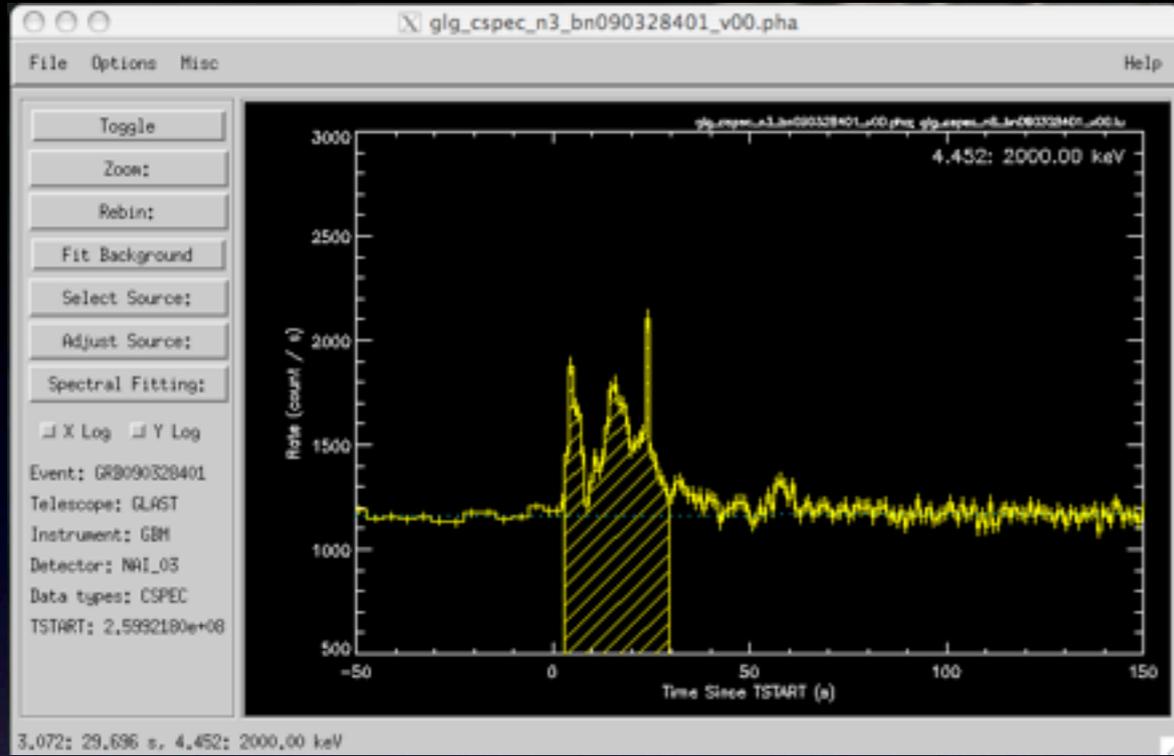
▶ A lightcurve and spectral analysis tool.

▶ Heritage: Michael Briggs, Bob Mallozzi and Rob Preece developed for time-resolved spectroscopy of GRBs seen by BATSE.

▶ Now: used by GBM and LAT teams for all GRB scientific papers. Adapted to cover low-count regime of LAT data and peculiarities of Fermi spacecraft (not inertially pointed).

▶ Can view and fit separately or jointly GBM, LAT, Swift BAT data... or any data that are in OGIP-compliant PHA, PHA2 fits files and single/multiple detector response matrices.

▶ Version 3.3 pr7 can be retrieved from the FSSC as (currently) user-contributed software at: http://fermi.gsfc.nasa.gov/ssc/data/analysis/user. Detailed tutorial also available at this link.

A burst! GRB 090323002

Seeing the data allows selection of detector set, background fit, source interval... over and over.

Batch-fitting over time shows us spectral evolution... the key to GRB prompt emission physics?

Valerie Connaughton